	Application No.	Applicant(s)
Notice of Allowability	10/680,780	ANDERSON ET AL.
	Examiner	Art Unit
	Leo Boutsikaris	2872
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits of the commits	in this application. If not included nunication will be mailed in due course. THIS
1. This communication is responsive to <u>amendment filed on 2/23/06</u> .		
2. The allowed claim(s) is/are <u>1-84</u> .		
3. Acknowledgment is made of a claim for foreign priority unexate all all b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.	e been received. e been received in Application cuments have been received of this communication to file MENT of this application. whitted. Note the attached EX es reason(s) why the oath of the submitted. Son's Patent Drawing Review s Amendment / Comment of	on No ed in this national stage application from the e a reply complying with the requirements AMINER'S AMENDMENT or NOTICE OF or declaration is deficient. w (PTO-948) attached or in the Office action of
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the		
attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of Ir	nformal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),
Information Disclosure Statements (PTO-1449 or PTO/SB/0-Paper No./Mail Date	Paper No.	/Mail Date Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's 9. □ Other	Statement of Reasons for Allowance

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dr. Raj Dave on 3/17/06.

The application has been amended as follows:

IN THE CLAIMS

In claim 35, line 2, the phrase --comprising page-wise data modulated by a spatial light modulator (SLM)-- is inserted after "first signal beam".

In claim 40, line 2, the phrase --comprising page-wise data modulated by a spatial light modulator (SLM)-- is inserted after "first signal beam".

In claim 74, line 2, the phrase --comprising page-wise data modulated by a spatial light modulator (SLM)-- is inserted after "first signal beam".

In claim 78, line 3, the phrase --comprising page-wise data modulated by a spatial light modulator (SLM)-- is inserted after "first signal beam".

The following is an examiner's statement of reasons for allowance:

Claims 1-84 are allowable over the prior art of record for at least the reason that even though the prior art discloses holographic multiplexing optical systems where multiple

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holograms are recorded in an overlapped fashion, such that two adjacent recording signal beams have no overlapping beam waists, and wherein the recording is performed in a bit-wise way, the prior art fails to teach or reasonably suggest, regarding claims 1-34, 38, 84, a method for holographic recording comprising creating a first hologram in a holographic media using a first signal beam comprising page-wise data modulated by a spatial light modulator, and separating the first hologram from the second hologram such that substantially no portion of the beam waist of the first signal beam occurs at the same location as any portion of beam waist of the second signal beam, regarding claims 35-37, a method for reading out a first hologram created in a holographic media from a first signal beam comprising page-wise data modulated by a spatial light modulator, such that substantially no portion of the beam waist of the first signal beam occurs at the same location as any portion of beam waist of the second signal beam, regarding claims 39-73, 77, an apparatus for hologram recording comprising a first signal beam comprising page-wise data modulated by a spatial light modulator, such that substantially no portion of the beam waist of the first signal beam occurs at the same location as any portion of beam waist of the second signal beam, regarding claims 74-76, an apparatus for reading out a first hologram created in a holographic media from a first signal beam comprising page-wise data modulated by a spatial light modulator, such that substantially no portion of the beam waist of the first signal beam occurs at the same location as any portion of beam waist of the second signal beam, and regarding claims 78-83, a holographic media including a first plurality of holograms multiplexed with a first hologram at a first location in the holographic media, the first hologram generated by a first signal beam comprising page-wise data modulated by a spatial light modulator, such that

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substantially no portion of the beam waist of the first signal beam occurs at the same location as

any portion of beam waist of the second signal beam, as set forth by the claimed combination.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dr. Leo Boutsikaris whose telephone number is 571-272-2308.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leo Boutsikaris, Ph.D., J.D.

Primary Patent Examiner, AU 2872

March 17, 2006

LEONIDAS BOUTSIKARIS

PRIMARY EXAMINER